



Community
Workshop
#2

November 29, 2011

# Workshop Objectives

- Provide Project Status Update
  - Alternatives
  - Evaluation Criteria
- Gather Input on Alternatives Evaluation

# Workshop Agenda

8:30-9:15 Presentation

9:15-10:00 Small Groups - Discussion

10:00-10:30 Small Group Reports

**Next Steps** 

## **Presentation Outline**

- Project Overview
- Project Status
  - Alternatives
  - Evaluation Criteria
- Evaluation Process
  - Evaluation Methodology
  - Preliminary Results



## Who is Involved?

- City of Minneapolis\*
- Hennepin County\*
- University of Minnesota\*
- University District Alliance\*
- Minneapolis Park and Recreation Board\*
- Metropolitan Council/Central Corridor Project Office
- City of Saint Paul
- Marcy Holmes Neighborhood Association\*

- Prospect Park East River Road
   Improvement Association
- Nicollet Island East Bank
   Neighborhood Association
- Minneapolis Riverfront Partnership
- Southeast Business Association
- Dinkytown Business Association
- Stadium Village Improvement Association

# What is the Project Status?

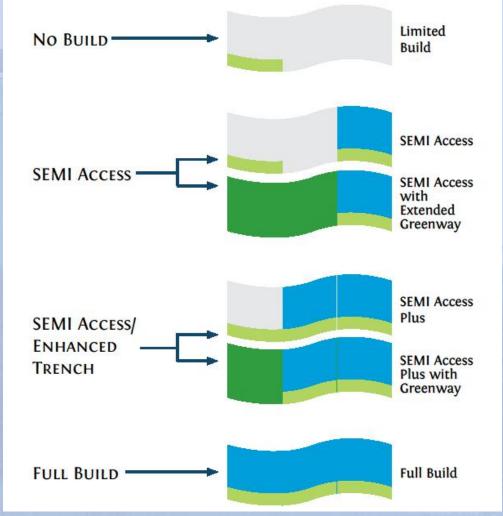
Analyze Interpret Costs/ Benefits Results Develop Recommend Key Count, measure, Analysis Develop differentiators document, etc. Measures ■ Short-term Criteria Trends and ■ Translate into Long-term Methods scores (1-5) Weighting Total scores by Sensitivity category and analysis sub-category

# **Project Status**

- Progress Since July Workshop
  - Documented and reviewed feedback from Workshop #1
  - Refined alternatives
  - Refined evaluation criteria
  - Defined evaluation process
  - Conducted preliminary evaluation

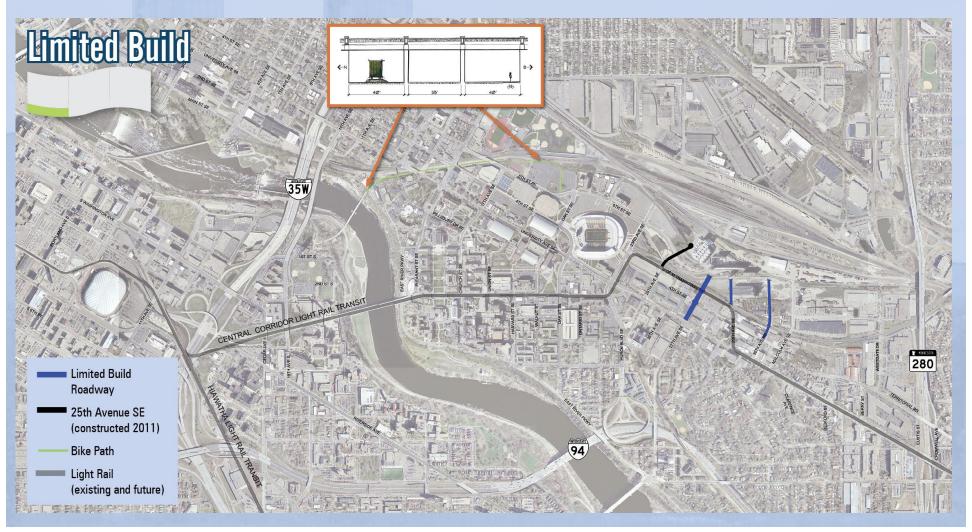


# Project Status - Alternatives



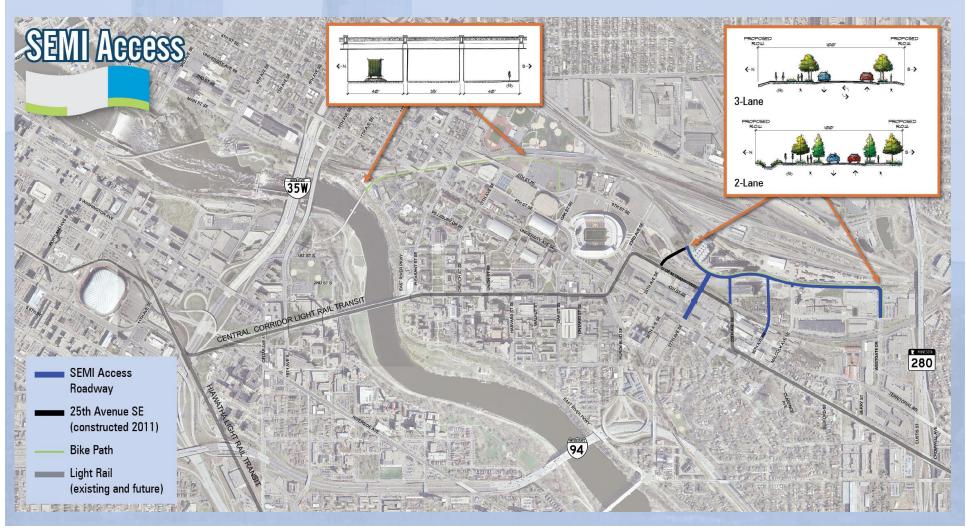


# Limited Build Alternative



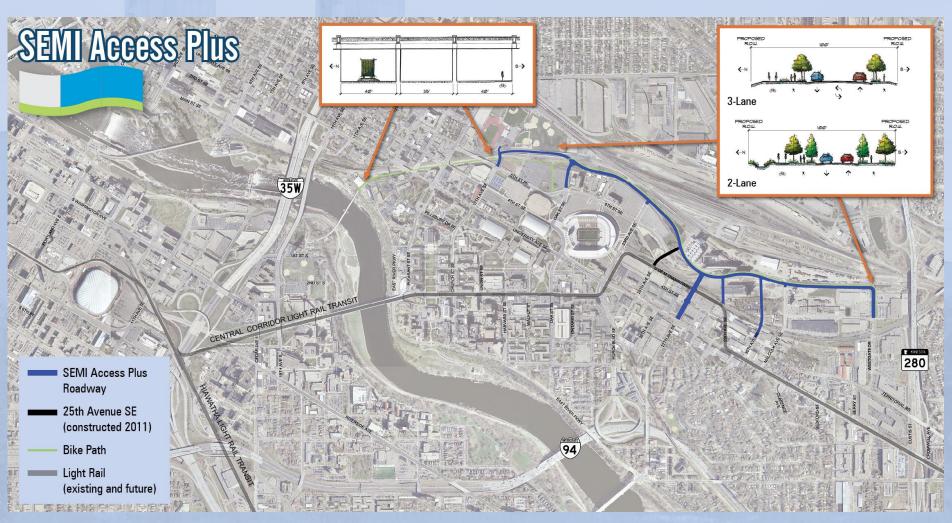


# **SEMI Access Alternative**



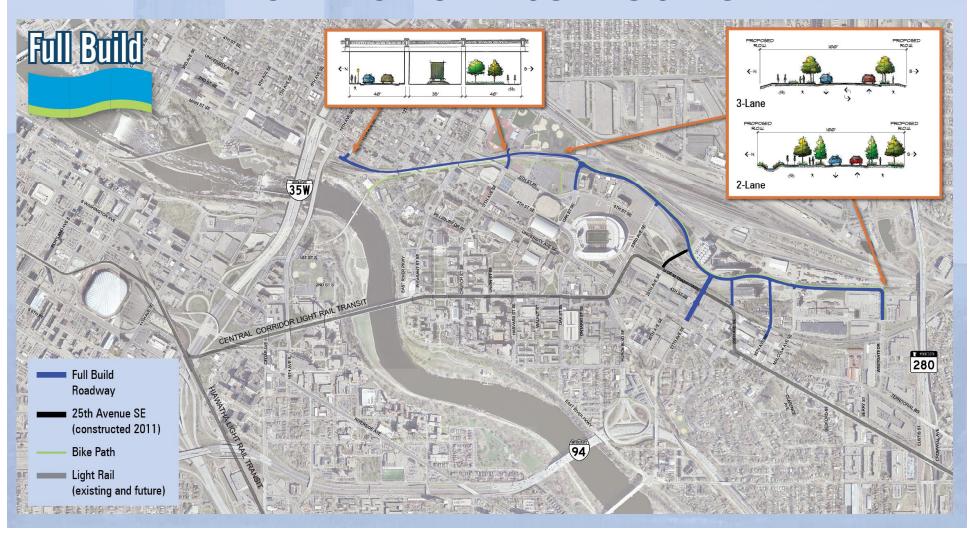


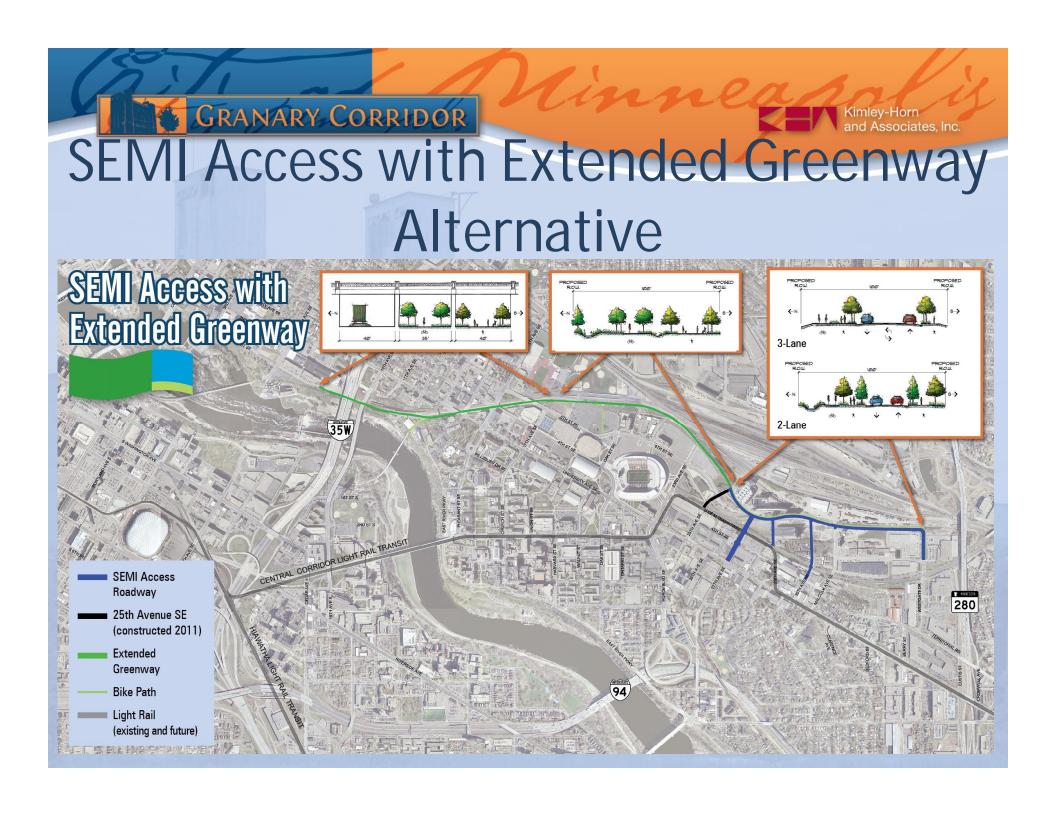
## **SEMI Access Plus Alternative**

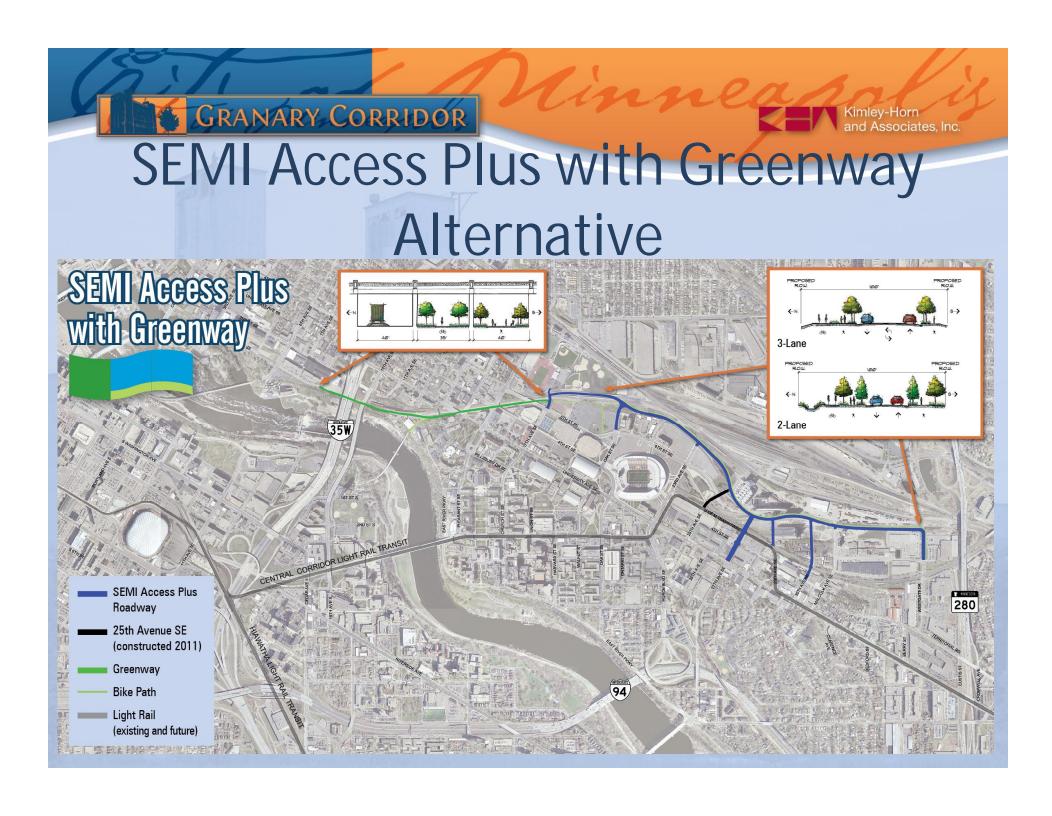




## Full Build Alternative





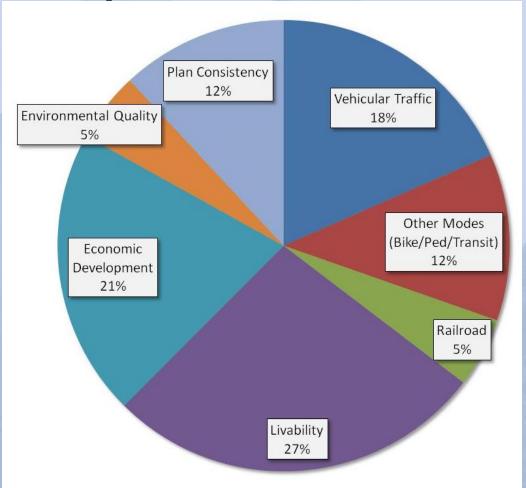


# Project Status - Evaluation Criteria

- Criteria (7 categories)
  - Vehicular Traffic
  - Other Modes (Bike/Ped/Transit)
  - Railroad
  - Livability
  - Economic Development
  - Environmental Quality
  - Plan Consistency
- Cost



## Project Status - Evaluation Criteria



Weighting from Workshop #1

## Project Status - Evaluation Criteria

#### VEHICULAR TRAFFIC

- T1. Reduces traffic congestion
- T2. Decreases traffic volumes on University Avenue & 4th Street
- T3. Improves study area connectivity
- T4. Decreases interaction and conflicts between future traffic and other modes
- T5. Vehicular access to existing property and uses

#### OTHER MODES (BIKE/PED/TRANSIT)

- OM1. Facilitates bike and pedestrian travel
- OM2. Facilitates transit use
- OM3. Multi-modal environment and experience

#### RAILROAD

RR1. Changes to existing rail operations

#### **ENVIRONMENTAL QUALITY**

- EN1. Environmental quality (air)
- EN2. Environmental quality (noise)
- EN3. Environnemental quality (contaminated sites)
- EN4. Storm water and water quality

#### LIVABILITY

- L1. Creation of destinations, open space/public space, and points of interest
- L2. Connection to the Mississippi River
- L3. Cohesiveness of the community
- L4. Improvements to visual quality
- L5. Biodiversity
- L6. Future traffic volumes remain in acceptable thresholds for street type
- Impacts of future traffic on adjacent properties and neighborhoods
- L8. Impacts on historic character/features

#### **ECONOMIC DEVELOPMENT**

- ED1. Access (all modes) to parcels identified for future development or redevelopment
- ED2. Impacts on access (all modes) to existing underutilized property not currently identified for redevelopment.

#### PLAN CONSISTENCY

- P1. Supports City of Minneapolis policies and Comprehensive Plan
- P2. Supports University of Minnesota policies and Master Plan
- P3. Supports policies and goals of adopted neighborhood plans and other agency plans



# Evaluation Process

## **Evaluation Process**

- Establish units of measurement
- Measure alternatives against criteria
- Assign scores (1-5 points)
- Weight categories

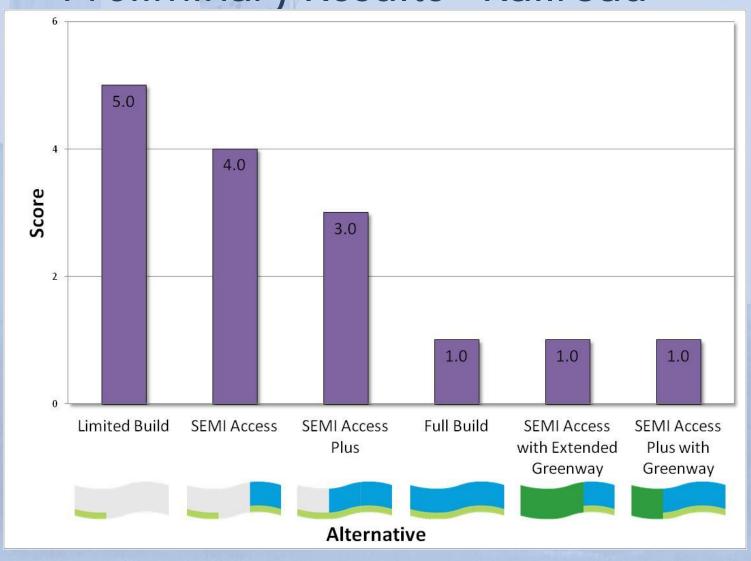
#### Kimley-Horn and Associates, Inc.

# **Evaluation Process**

Criterion	Measure (what)	Method (how)	Limited Build		SEMI Access		SEMI Access Plus		Full Build		SEMI Access with Extended Greenway		SEMI Access Plus with Greenway	
			RESULT	SCORE (1-5)	RESULT	SCORE (1-5)	RESULT	SCORE (1-5)	RESULT	SCORE (1-5)	RESULT	SCORE (1-5)	RESULT	SCORE (1-5)
Traffic Volum	e													
			AM = 107 zone/560 network PM = 233 zone/ 1020 network		PM = 193 zone/930 network		AM = 103 zone/567 network PM = 202 zone/806 network	2 pt delay; 0.25 intersection LOS	AM = 101 zone/439 network PM = 204 zone/872 network AM = -6 zone/-121 network	2.4 pt delay; 1 pt intersection LOS	AM = 121 zone/596 network PM = 193 zone/930 network	0.8 pt delay; pt intersection LOS	AM = 103 zone/567 network PM = 246 zone/767 network	2 pt delay 0.25 intersection LOS
T1. Reduces traffic congestion			AM = 5 int. LOS E/F PM = 4 int. LOS E/F		AM = +14 zone /+36 network PM = -40 zone/ -90 network AM = 4 int. LOS E/F PM = 1 int. LOS E/F		AM = -4 zone /+7 network PM = -31 zone/ -214 network AM = 4 int. LOS E/F PM = 2 int. LOS E/F		PM = -29 zone/ -148 network  AM = 4 int. LOS E/F  PM = * *		),		7 network -253 network /F F	i
	Vehicle Hours of Delay (VHD) in study area	Vehicle Hours of Delay (VHD) in study area, measured at 9 key intersections.	AM = 2.5 min delay/vehicle PM = 3.7 min delay (network average)	1	AM = 2.6 min delay/vehicle PM = 3.4 min delay (network average) 1) Univ = -500	2.4	AM = 2.5 min delay/vol-11		60	E			/vehicle 'network	3.3
T2. Decreases traffic volumes on University Avenue & 4 <sup>th</sup> Street	Daily traffic volumes (AADT)	Daily traffic volumes (AADT) in study area, measured for a key segments.	1) Univ= 22,500; 4th = 23,000 2) Univ = 21,500; 4th = 19,000		4th = 0	0	ad	S	Me	4.3	(3) Univ = -3,000 4) Univ = -3,500	2.5	4th = +500 2) Univ = -1,000; 4th = 0 3) Univ = -3,500 4) Univ = -3,700	2.6
	ŀ	<b>4</b> U	ge	S	hi		رمده); ۱۳:M: EB = 3.0min (0%); WB = 2.1min (-1%)		1) University AM: E8 = 2.9min (+18%); W8 = 2.8min (+6%); PM: E8 = 3.4min (+15%); W8 = 2.8min (+6%); PM: E8 = 3.4min (+15%); W8 = 2.3min (+9%); N6 = 1.5min (-32%); W8 = 1.4min (-32%); W8 = 1.4min (-32%); PM: E8 = 3.5min (9%); S8 = 2.6min (-18%); S8 = 2.6min (-18%); S8 = 2.7min (+7%); S8		1) AM: EB = 2.8min (+11%); WB = 2.5min (-6%); PM: EB = 2.6min (-11%); WB = 3.2min (+52%)		1) AM: EB = 2.5min (0%); WB = 2.6min (+1%); PM: EB = 5.7min (+93%); WB = 2.1min (+2%)	
T3. Improves stu. connectivity			3.2 min; PM: NB = 2.5 min; SB = 3.2 min		2) AM: NB = 1.4min (-6%); SB = 3.4min (+5%); PM: NB = 2.4min (-4%); SB - 3.0min (-7%)		2) AM: NB = 1.5min (0%); SB = 3.1min (-4%); PM: NB = 2.5min (+1%); SB = 3.1min (-5%) 3) University AM: EB =		WB = 1.4min (-32%) 2) AM: NB = 1.5min (0%); SB = 2.6min (-18%); PM: NB = 2.7min (+7%); SB - 3.0min (-7%)		2) AM: NB = 1.4min (-6%); SB = 3.4min (+5%); PM: NB = 2.4min (-4%); SB - 3.0min (-7%)		2) AM: NB = 1.5min (0%); SB = 3.1min (-4%); PM: NB = 2.8min (+14%); SB - 3.5min (+8%)	:
	Travel time within study	Travel time on key Origin- Destination pairs within the	3) AM: EB = 6.4 min; WB = 6.8 min; PM: EB = 8.1 min; WB = 11.6		3) AM: EB = 6.6min (+4%); WB = 6.8min (0%); PM: EB = 7.2min (-11%); WB = 8.6min (-26%)		6.2min (-3%); WB = 6.5min (- 3%); PM: EB = 7.7min (-5%); EB = 8.4min (-27%) 3) Granary AM: EB = 6.4min (+1%); WB = 5.8min (-15%); PM: EB = 7.2min (-12%);		3) University AM: EB = 6.2min (-3%); WB = 6.4min (-6%); PM: EB = 7.6min (-6%); WB = 8.4min (-27%) 3) Granary AM: EB = 6.5min (+3%); WB = 6.6min (-2%); PM: EB = 7.2min (-11%);		3) AM: EB = 6.6min (+4%); WE = 6.8min (0%); PM: EB = 7.2min (-11%); WB = 8.6min (-26%)		3) University AM: EB = 6.2min (-3%); WB = 6.5min (-3%); PM: EB = 9.5min (+17%); EB = 8.5min (-27%) 3) Granary AM: EB = 6.4min (+1%); WB = 5.8min (-15%); PM: EB = 7.3min (-10%);	
74. Decreases interaction and conflicts between uture traffic and other nodes	Change in traffic volume at	Percent increase in traffic at intersections with designated bike lane/route or existing crash history of >1 pedestrian or bike crash per	alternative as basis for	2	2 intersection volumes decrease, 2 increase, 3 no change Avg change: -0.06% New ped/bike conflicts =	3.5	WB = 7.1min (-39%)  3 intersection volumes decrease, 4 increase, Avg change: -0.25% New ped/bike conflicts = 27th/Granary; 17th/Granary/U of M bike trail	3.2	WB = 10.0mln (-14%) 7 intersection volumes decrease, Avg change: -5.8% Avg change: -5.8% New ped/bike conflicts = 27th/Granary; 17th/Granary/U of M bike trail; Granary/14th and Granary/15th to access	4.9	2 intersection volumes decrease, 2 increase, 3 no change Avg change: -0.06% New ped/bike conflicts =	3.5	WB = 7.3min (-37%)  3 intersection volumes decrease, 4 increase, Aye change: -0.25% New ped/bike conflicts = 27th/Granary; 17th/Granary/U of M bike trail:	3.2
	select intersections	year during 2007-2009.  Identify access changes  Idelminated increased for	comparison	3	27th/Granary	2.9	11 (11	2.8	vertical connections	3.2	27th/Granary	2.9	u on,	2.8



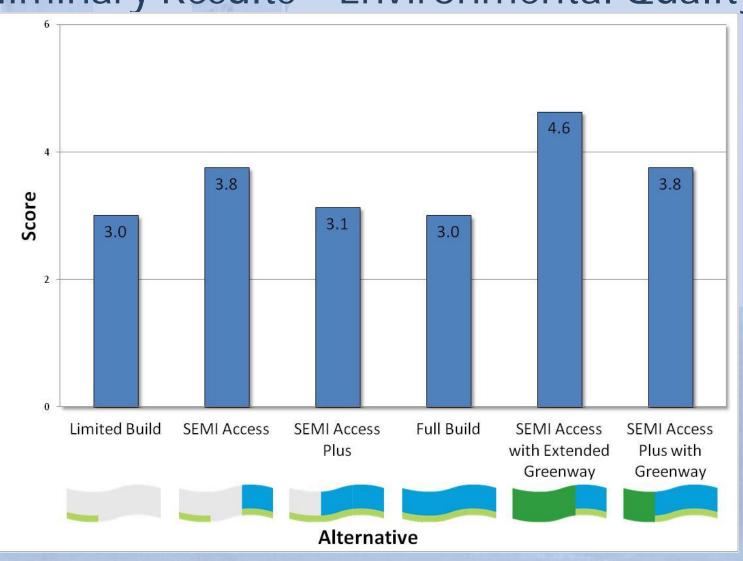
## Preliminary Results - Railroad



## GRANARY CORRIDOR

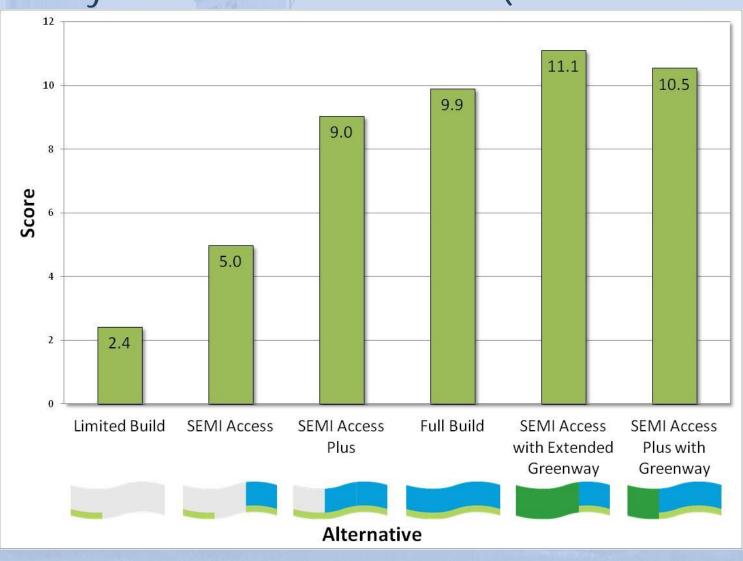


## Preliminary Results - Environmental Quality



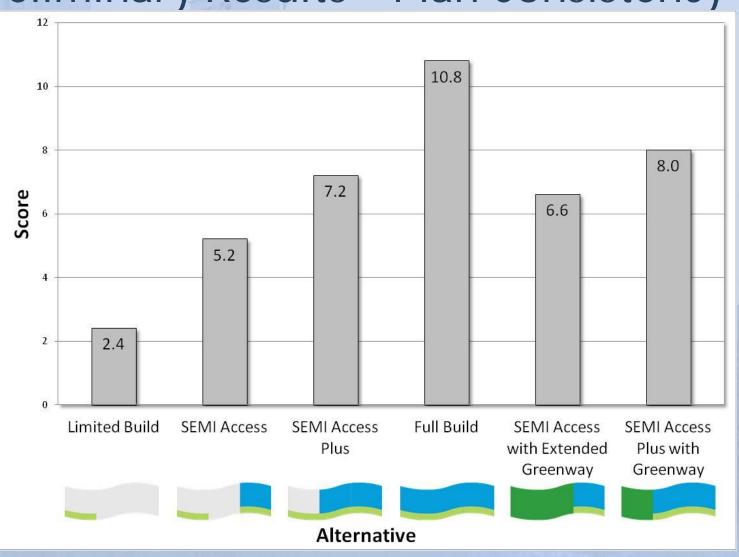


### Preliminary Results - Other Modes (Ped/Bike/Transit)



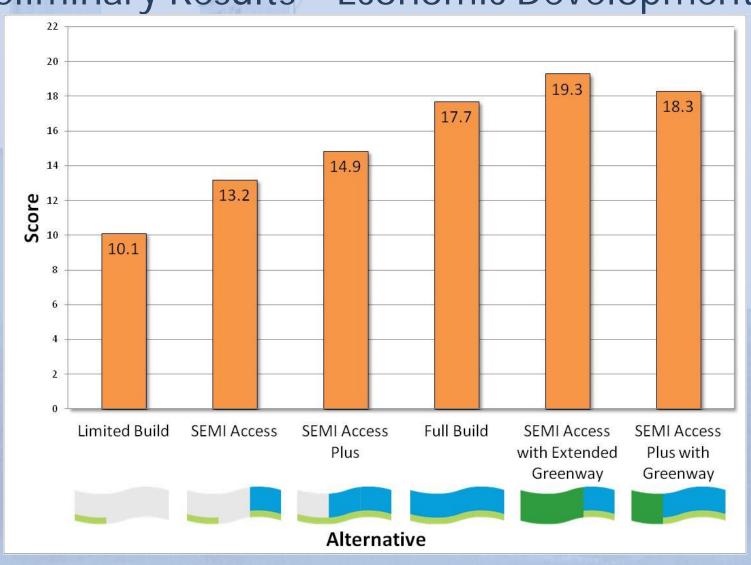


## Preliminary Results – Plan Consistency



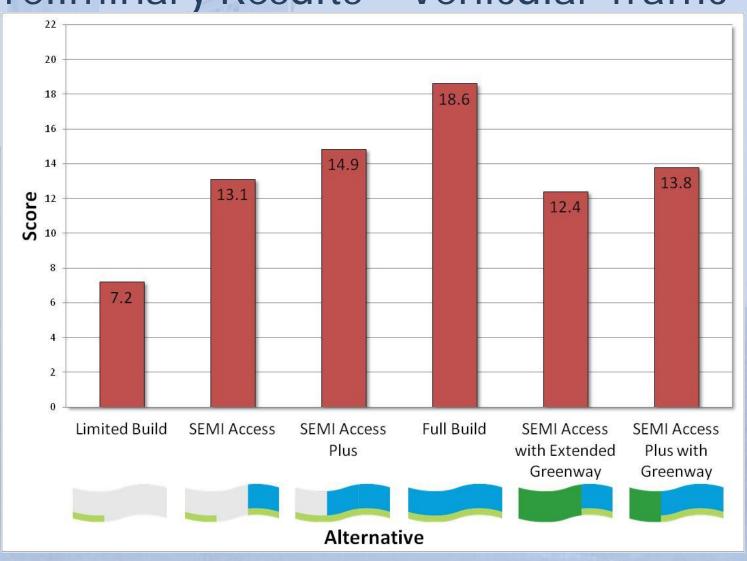


## Preliminary Results – Economic Development



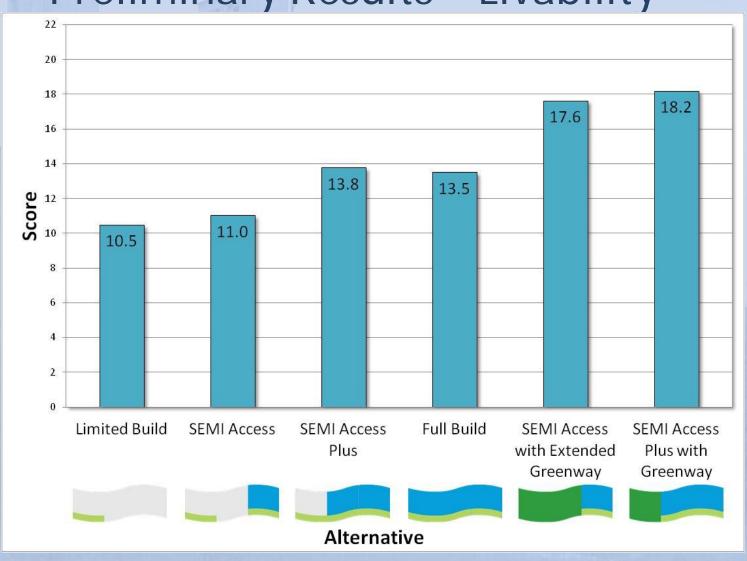


## Preliminary Results - Vehicular Traffic



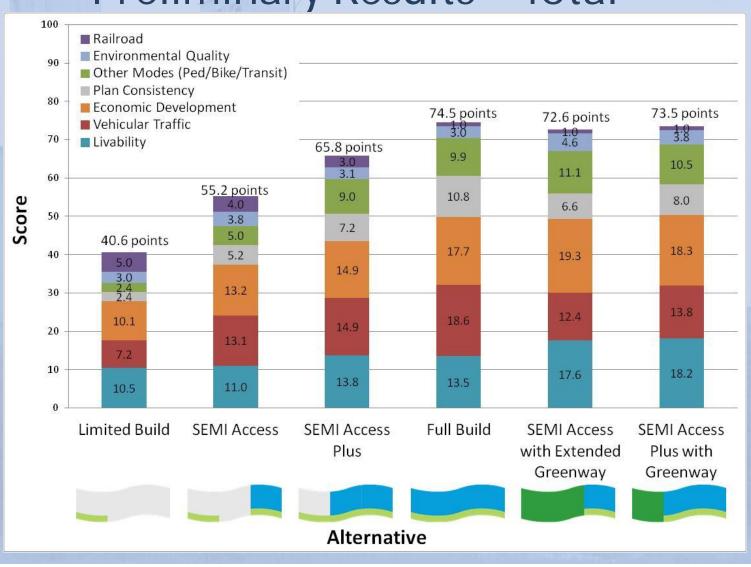


## Preliminary Results - Livability



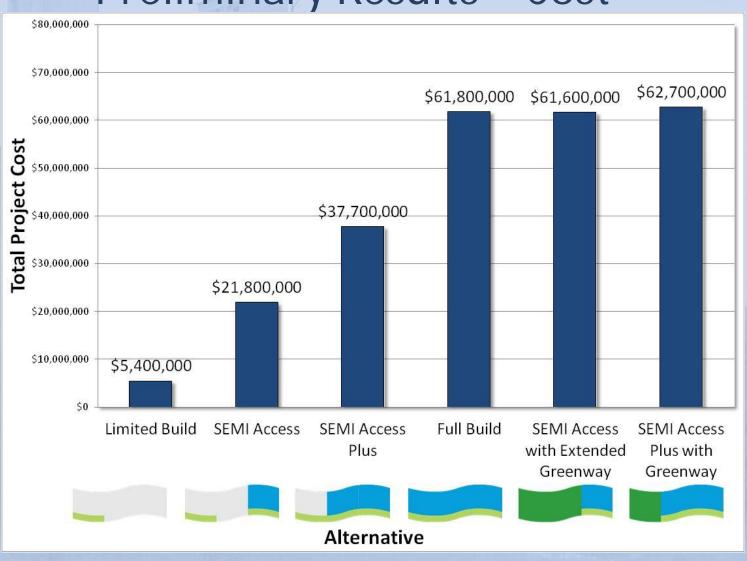


## Preliminary Results - Total





## Preliminary Results - Cost



# **Preliminary Results**

- More investment = more benefit
  - All full length alternatives (Full Build and Greenway alternatives) have highest total scores and costs
- Cost/Benefit Ratio Diminishing Returns
  - Full Build scores 1.4x better for Vehicular Traffic compared with SEMI Access, but at 2.6x the cost
  - SEMI Access Plus with Greenway scores 1.7x better for Livability compared with SEMI Access, but at 2.8x the cost

# **Small Groups**

- Recap/Questions
- Discussion
- Feedback on Evaluation
  - Do the results make sense?
  - What would you score or weight differently?
  - Identify top 4 issues/comments
- Group Reporting

# **Next Steps**

- Finalize Evaluation Results
- Draft Recommendations
- Workshop January 2012
- Final Report